

## Special Issue

# Aerospace System Analysis and Optimization

### Message from the Guest Editors

In today's complex aerospace system engineering, designers face requirements that become a challenge to satisfy: System specifications are narrowing (due to safety regulations, environmental constraints, costs, etc.), development delays are shortening, and the performances of the system have to be established as soon as possible with sufficient accuracy. A large range of mathematical algorithms blossom to face up to the challenges induced by aerospace system design and simulation. The scope of this Special Issue is to present the latest methodological and applied developments for aerospace system analysis and optimization. Fields for this SPECIAL ISSUE involve new advances in particular on aerospace system analysis, uncertainty quantification, aerospace system identification and modeling, machine learning for aerospace systems, multidisciplinary analysis, and optimization and multifidelity modeling.

---

### Guest Editors

Prof. Dr. Jérôme Morio

ONERA/DTIS, Université de Toulouse, 31000 Toulouse, France

Dr. Mathieu Balesdent

ONERA-The French Aerospace Lab, 91120 Palaiseau, France

Dr. Loïc Brevault

ONERA-The French Aerospace Lab, 91120 Palaiseau, France

---

### Deadline for manuscript submissions

closed (20 March 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/59993](https://mdpi.com/si/59993)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )